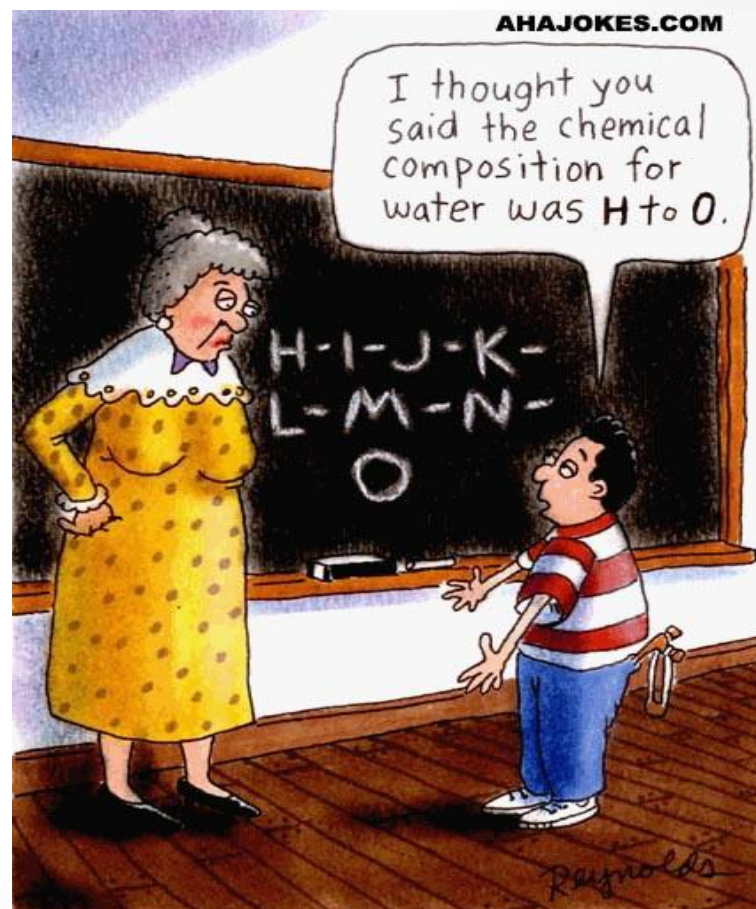


Welcome Back to IB Chemistry SL/HL 2



SL/HL 2 - Chemistry

Instructor : Mr. Martin Brakke

Email : martinb@eca.com.ve

Web: BrakkeIBchem1.wikispaces.com

Copy this web address and set a bookmark on your web browser. You will be using this site all year



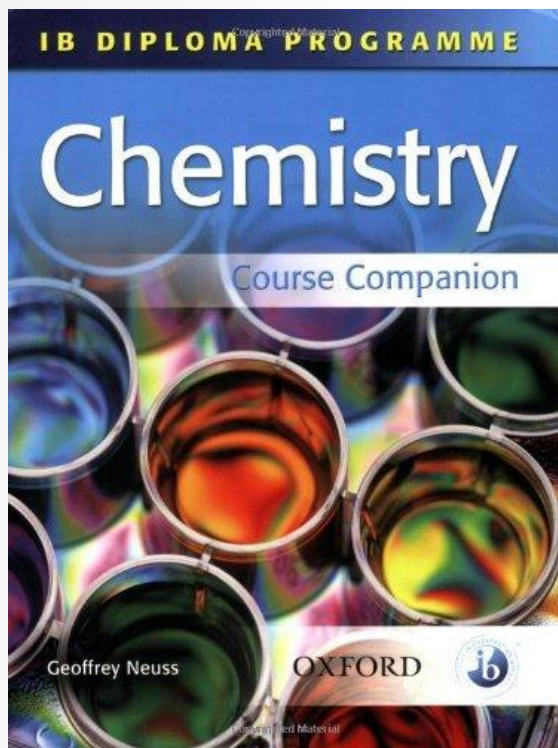
IB Chemistry Agenda

Blocks 1 & 4:

- Brief overview of the course, again
- Books
- Where do we go from here?
- Assignments
- Class Policies
- Woosh!!

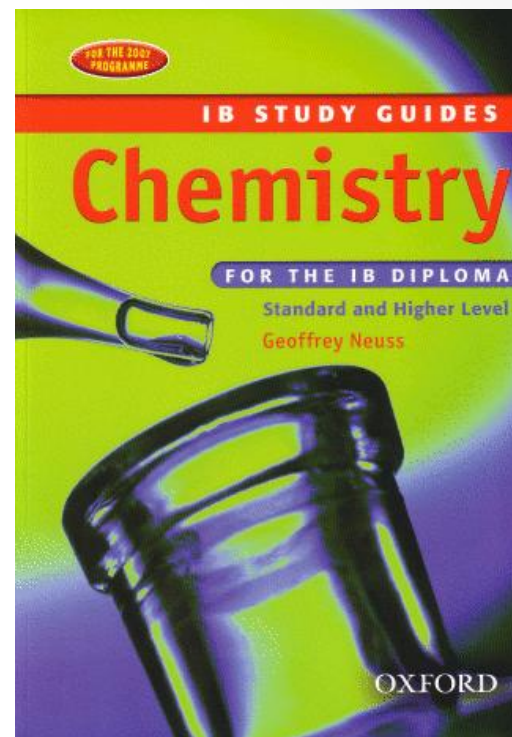


Textbooks



Your Primary
Textbook

(may be left at home)



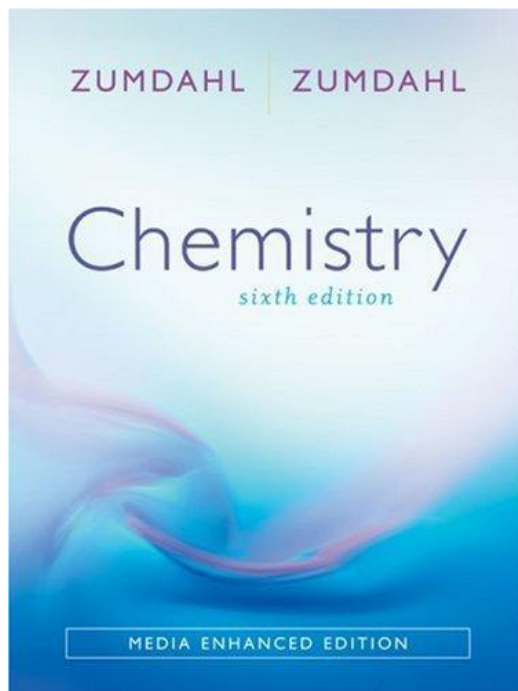
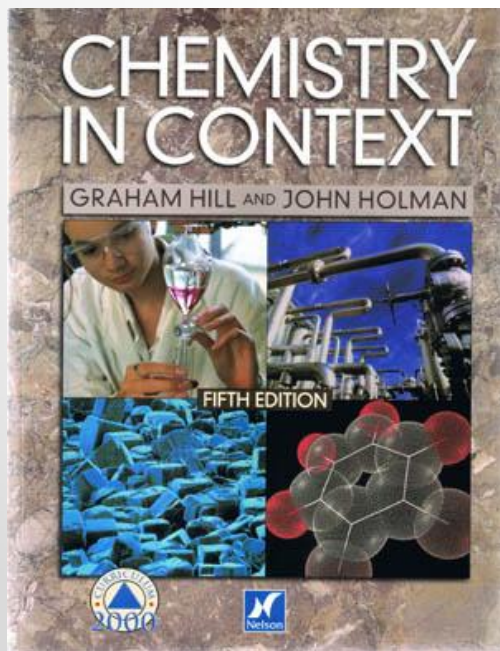
Review and
Reference

(may be left at home)



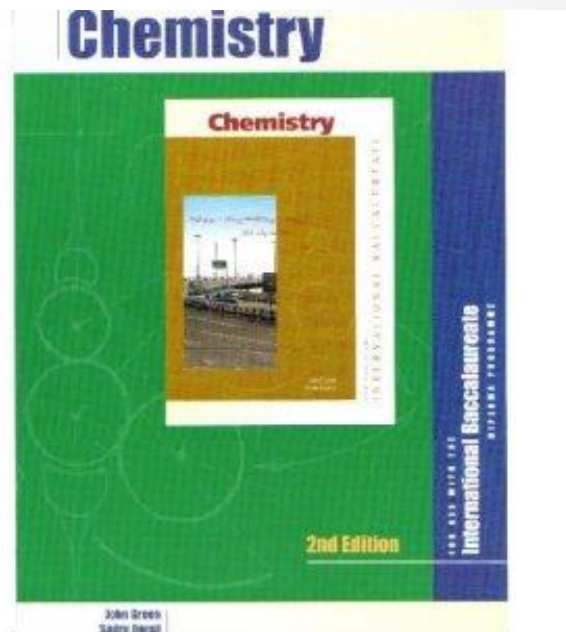
Supplementary Texts (if needed)

Source text, not same sequence as IB (borrow upon request)



Printed prior to IB revision, includes minor changes to sequence (borrow upon request)

For use with AP and Gen Chem, not same sequence as IB (borrow upon request)



| | Standard Level | Higher Level |
|-------------------------|---|---|
| Core | <u>Topic 1:</u> Quantitative chemistry <u>Topic 2:</u> Atomic structure <u>Topic 3:</u> Periodicity <u>Topic 4:</u> Bonding <u>Topic 5:</u> Energetics <u>Topic 6:</u> Kinetics <u>Topic 7:</u> Equilibrium | <u>Topic 1:</u> Quantitative chemistry <u>Topic 2:</u> Atomic structure <u>Topic 3:</u> Periodicity <u>Topic 4:</u> Bonding <u>Topic 5:</u> Energetics <u>Topic 6:</u> Kinetics <u>Topic 7:</u> Equilibrium |
| | <u>Topic 8:</u> Acids and Bases <u>Topic 9:</u> Redox <u>Topic 10:</u> Organic chemistry | |
| | <u>Topic 11:</u> Measurement & data processing | <u>Topic 11:</u> Measurement & data processing |
| Additional Higher Level | | <u>Topic 12:</u> Atomic structure <u>Topic 13:</u> Periodicity (13.2) <u>Topic 14:</u> Bonding (14.2) <u>Topic 15:</u> Energetics <u>Topic 16:</u> Kinetics <u>Topic 17:</u> Equilibrium |
| | | <u>Topic 18:</u> Acids and bases <u>Topic 19:</u> Redox <u>Topic 20:</u> Organic chemistry |
| Options | <u>Option B:</u> Human Biochemistry <u>Option E:</u> Environmental chemistry. | |
| Theory Hours | 80 core + 30 Options | 135 core + 45 Options |
| Internal Assessment | 30 IA + 10 Group 4 Project | 50 IA + 10 Group 4 Project |
| Total | 150 hours | 240 hours |

HL: Need 30.5 hrs

SL: Need 10.5 hrs

Topic 18: Acids and bases
 Topic 19: Redox
 Topic 20: Organic chemistry

GOAL: to have a positive experience in Chemistry while reaching each individuals potential. The IB program (and an education at ECA) is meant to be well rounded and multicultural



IB SL/HL 2 - Assignments

- Due Wed 8/18: (R-D01):

- Return Classroom Syllabus
- Read and Review Topics 1&2 in the IB Study Guide, use Course Companion for clarification.

- Due Fri 8/20: (R-D02)

- Return Review Assignment
- Read and Review Topics 3&4 in the IB Study Guide, use Course Companion for clarification.



Topic 1: Quantitative Chemistry (12.5 hrs)

1.1 The mole concept and Avogadro's Constant – 2 h

1.2 Formulas - 3 hrs

1.3 Chemical Equations – 1 hr

1.4 Mass and gaseous volume rel. in chemical reactions - 4.5 hrs

1.5 Solutions - 2 hours

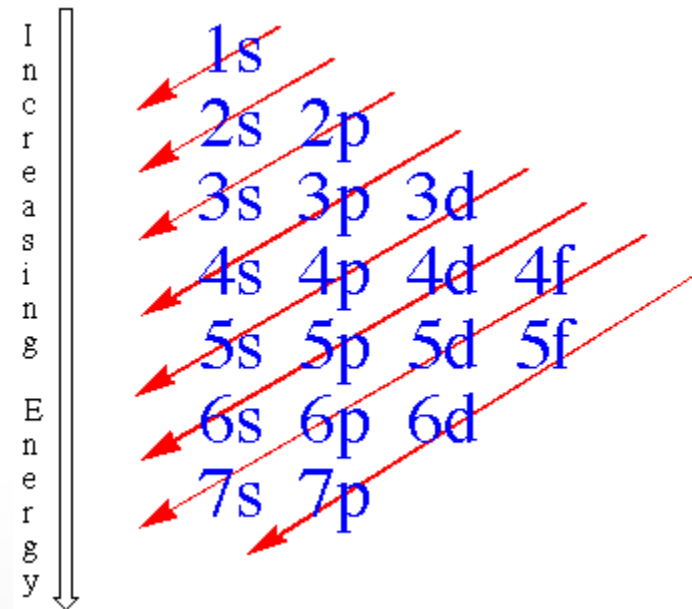
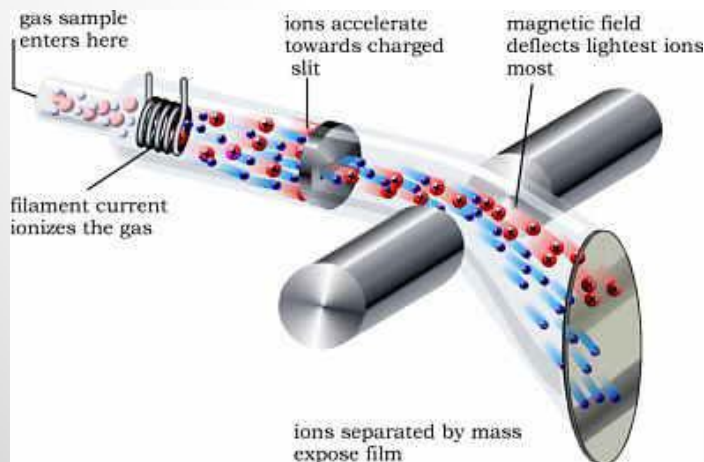


Topic 2: Atomic structure (4 hrs)

2.1 The atom - 1 hrs

2.2 The mass spectrometer - 1 hrs

2.3 Electron arrangement - 2 hrs



Expectation for Next Class

- Submit signed syllabus (last page can be turned in)
- Complete Review Sheet – keep on desk
 - IF A PROBLEM TAKES MORE THAN A COUPLE MINUTES – SKIP IT!!!
 - This is meant to access and assess prior knowledge, not to test you
- Have your laptop open
 - Log into my account on SynchronEyes
 - Close computer
 - You may charge in my classroom

